This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An iris camera module comprising:
an image pickup optical system for picking up an image of the iris; ~~and~~
a target optical system for displaying a target for the eye; and
a target screen where the target is displayed,
wherein the target optical system and the image pickup optical system are integrated into a single unit.

2. (currently amended) An iris camera module according to claim 1, wherein the image pickup optical system includes:
an infrared illuminating section for irradiating an infrared ray onto the eye;
an image pickup section for picking up the image of the iris by detecting the infrared ray reflected on the eye; and
an image pickup optical section for guiding the infrared ray reflected on the eye to the image pickup section, wherein the target optical system includes: ~~a target screen where the target is displayed; and~~
a target optical section for guiding the image of the target on the target screen to the eye.

3. (original) An iris camera module according to claim 2, wherein the image pickup optical section and the target optical section include a common half mirror for reflecting to guide the infrared ray reflected on the eye to the image pickup section and guiding the image of the target on the target screen to the eye without reflecting the image.

4. (original) An iris camera module according to claim 2, wherein the image pickup optical section and the target optical section include a common half mirror for guiding the infrared ray reflected on the eye to the image pickup section without reflecting the infrared ray and reflecting to guide the image of the target on the target screen to the eye.

5. (original) An iris camera module according to claim 1, wherein the target optical system includes a screen illuminating section for illuminating the target screen.

6. (original) An iris camera module according to claim 2, wherein the image pickup section includes:

an image pickup element for picking up the image of the iris;

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

7. (original) An iris camera module according to claim 6, wherein the reference iris information can be overwritten only a predetermined number of times in the storage.

8. (original) An iris camera module according to claim 2, wherein the image pickup section includes:

an image pickup element for picking up the image of the iris; and

a connector section for coupling an external circuit detachable from the image pickup section,

wherein the external circuit includes:

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

9. (previously presented) An iris camera module comprising:

an image pickup optical system for picking up an image of the iris of a user; and

a target optical system including a target screen for displaying a target for aligning the eye of the user, wherein the target optical system and the image pickup optical system are integrated onto a common substrate.

10. (previously presented) An iris camera module according to claim 9, wherein the image pickup optical system includes:

an infrared illuminating section for irradiating an infrared ray onto the eye;

an image pickup section for picking up the image of the iris by detecting the infrared ray reflected on the eye; and

an image pickup optical section for guiding the infrared ray reflected on the eye to the image pickup section,

and further wherein the target optical system includes:

a target optical section for guiding the image of the target on the target screen to the eye.

11. (previously presented) An iris camera module according to claim 10, wherein the image pickup optical

section and the target optical section include a common half mirror for reflecting to guide the infrared ray reflected on the eye to the image pickup section and guiding the image of the target on the target screen to the eye without reflecting the image.

12. (previously presented) An iris camera module according to claim 10, wherein the image pickup optical section and the target optical section include a common half mirror for guiding the infrared ray reflected on the eye to the image pickup section without reflecting the infrared ray and reflecting to guide the image of the target on the target screen to the eye.

13. (previously presented) An iris camera module according to claim 9, wherein the target optical system includes a screen illuminating section for illuminating the target screen.

14. (previously presented) An iris camera module according to claim 10, wherein the image pickup section further includes:

an image pickup element for picking up the image of the iris;

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

15. (previously presented) An iris camera module according to claim 14, wherein the reference iris information can be overwritten only a predetermined number of times in the

storage.

16. (previously presented) An iris camera module according to claim 10, wherein the image pickup section further includes:

an image pickup element for picking up the image of the iris; and

a connector section for coupling an external circuit detachable from the image pickup section,

and wherein the external circuit includes:

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

17. (previously presented) An iris camera module comprising:

an image pickup optical system for picking up an image of the iris of a user;

a target optical system for displaying a target for aligning the eye of the user;

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained, wherein

the reference iris information can be overwritten only a predetermined number of times in the storage.

18. (previously presented) An iris camera module comprising:

an image pickup optical system for picking up an image of the iris of a user;

a target optical system for displaying a target for aligning the eye of the user;

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained, wherein

the reference iris information cannot be overwritten.

19. (previously presented) An iris camera module comprising:

an image pickup optical system for picking up an image of the iris of a user, said image optical system including:

an illuminating section for irradiating a ray onto the eye;

an image pickup section for picking up the image of the iris by detecting the ray reflected on the eye; and

an image pickup optical section for guiding the ray reflected on the eye to the image pickup section;

a target optical system for displaying a target for aligning the eye of the user, said target optical system including:

a target screen;

a target optical section for guiding the image of the target on the target screen to the eye; and

a screen illuminating section for illuminating the target screen with either ambient light or artificial light;

a storage for storing a reference iris information; and
a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained, wherein
the reference iris information can be overwritten only a predetermined number of times in the storage.

20. (previously presented) An iris camera module according to claim 19, wherein the image pickup optical section and the target optical section include a common half mirror for reflecting to guide the infrared ray reflected on the eye to the image pickup section and guiding the image of the target on the target screen to the eye without reflecting the image.

21. (previously presented) An iris camera module according to claim 19, wherein the image pickup optical section and the target optical section include a common half mirror for guiding the infrared ray reflected on the eye to the image pickup section without reflecting the infrared ray and reflecting to guide the image of the target on the target screen to the eye.

22. (new) An iris camera module comprising:
an eye illuminating section for irradiating a light ray onto the eye;
an image pickup optical system for picking up an image of the iris;
a target optical system including a target screen for displaying a target for the eye;

a screen illuminating section different from said eye illuminating section for illuminating the target screen;

wherein the target optical system and the image pickup optical system are integrated into a single unit.

23. (new) An iris camera module according to claim 22, wherein the image pickup optical system includes:

an image pickup section for picking up the image of the iris by detecting the light ray reflected on the eye; and

an image pickup optical section for guiding the light ray reflected on the eye to the image pickup section, wherein the target optical system includes a target optical section for guiding the image of the target on the target screen to the eye.

24. (new) An iris camera module according to claim 23, wherein the image pickup optical section and the target optical section include a common half mirror for reflecting to guide the light ray reflected on the eye to the image pickup section and guiding the image of the target on the target screen to the eye without reflecting the image.

25. (new) An iris camera module according to claim 23, wherein the image pickup optical section and the target optical section include a common half mirror for guiding the light ray reflected on the eye to the image pickup section without reflecting the light ray and reflecting to guide the image of the target on the target screen to the eye.

26. (new) An iris camera module according to claim 23, wherein the image pickup section includes:

an image pickup element for picking up the image of the

iris;

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the image of the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

27. (new) An iris camera module according to claim 26, wherein the reference iris information can be overwritten only a predetermined number of times in the storage.

28. (new) An iris camera module according to claim 23, wherein the image pickup section includes:

an image pickup element for picking up the image of the iris; and

a connector section for coupling an external circuit detachable from the image pickup section,

wherein the external circuit includes:

a storage for storing a reference iris information; and

a comparator section for comparing an information based on the iris picked up by the image pickup section with the reference iris information to output the comparison result as to whether matching is obtained.

29. (new) An iris camera module comprising:

an eye illuminating section for irradiating a light ray onto the eye;

an image pickup section including a sensor for picking up an image of an iris by detecting the light ray reflected on the eye;

an image pickup optical section for guiding the light ray reflected on the eye to the image pickup section;

a target optical system for displaying a target for the eye; and

an eyepiece for transmitting the target image to the eye and for transmitting the image of the iris to the image pickup optical system;

wherein the target optical system and the image pickup optical system are integrated into a single unit.

30. (new) The iris camera module of claim 29, further comprising a target screen where the target is displayed;

31. (new) The iris camera module of claim 30, further comprising a condensing lens for gathering external light for illuminating the target screen.

32. (new) The iris camera module of claim 30, further comprising a screen illuminating section for illuminating the target screen.

33. (new) The iris camera module according to claim 29, wherein the image pickup optical section and the target optical section include a common half mirror for reflecting to guide the light ray reflected on the eye to the image pickup section and guiding the image of the target on the target screen to the eye without reflecting the image.

34. (new) An iris camera module according to claim 29 wherein the image pickup optical section and the target optical section include a common half mirror for guiding the light ray reflected on the eye to the image pickup section without reflecting the light ray and reflecting to guide the image of the target on the target screen to the eye.

35. (new) An iris camera module comprising:

an eye illuminating section for irradiating a light ray onto the eye;

an image pickup section including a sensor for picking up an image of an iris by detecting the light ray reflected on the eye;

an image pickup optical section including an imaging lens for guiding the light ray reflected on the eye to the image pickup section;

a target optical system for displaying a target for the eye; and

an eyepiece for transmitting the target image to the eye and for transmitting the image of the iris to the image pickup optical system;

wherein the target optical system and the image pickup optical system are integrated into a single unit.

36. (new) An iris camera module comprising:

an image pickup optical system for picking up an image of the iris; and

a target optical system including a common half mirror for displaying a target for the eye without reflecting the image;

wherein the target optical system and the image pickup optical system are integrated into a single unit.

37. (new) The Iris camera module of claim 36, further comprising a target optical system including a target screen for displaying a target for the eye.

38. (new) The Iris camera module of claim 37, further comprising a screen illuminating for illuminating the target screen.